			'd PCT/PTO 1 5 JUN 2001									
(REV 11-2	0-1390 U.S. DEPARTMEN	OMMERCE PATENT AND TRADEMARK OFFICE	PAH? S DOCKET NUMBER 124-861									
		R TO THE UNITED STATES	U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5)									
JUN 1 5		CTED OFFICE (DO/EO/US) LING UNDER 35 U.S.C. 371	U9/868241									
INTERNA	ATION APPLICATION NO	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED									
& TRADE	T/GB99/04260	16 December 1999	19 December 1998									
TITLE C	OF INVENTION											
	MODIFIED WEIGHTED BIT PLANES FOR DISPLAYING GREY LEVELS ON OPTICAL ARRAYS											
APPLIC	COKERGIA) Timothy Martin et al											
Applicar	at herewith submits to the Unite		D/US) the following items and other information:									
1. 🛛		of items concerning a filing under 35 U.S.C	-									
2.		SEQUENT submission of items concerning a										
3.		_	5 U.S.C. 371(f)). The submission must include									
0. 23	items (5), (6), (9) and (21) i		o o.o.o. or r(i)). The submission must molade									
4. 🛛	The U.S. has been elected	by the expiration of 19 months from the prior	rity date (Article 31).									
5. A c	copy of the International Applic	ation as filed (35 U.S.C. 371(c)(2)).										
a.	is attached hereto (req	uired only if not communicated by the Interr	national Bureau).									
þ.	has been communicat	ed by the International Bureau.										
[, ,]c	is not required, as the	application was filed in the United States Re	eceiving Office (RO/US).									
6.	An English language transla	tion of the International Application as filed	(35 U.S.C. 371(c)(2)).									
l la.	is attached hereto.											
14.	has been previously su	ubmitted under 35 U.S.C. 154(d)(4).	•									
7.	Amendments to the claims of	of the International Application under PCT A	rticle 19 (35 U.S.C. 371(c)(3))									
. a.	are attached hereto (re	equired only if not communicated by the Inte	rnational Bureau).									
≇ b. 7च		ted by the International Bureau.										
(<u>1</u> (<u>0</u>	have not been made; h	nowever, the time limit for making such ame	ndments has NOT expired.									
Įd.	have not been made a	nd will not be made.										
8.	An English language transla	tion of the amendments to the claims under	PCT Article 19 (35 U.S.C. 371(c)(3)).									
9. =		e inventor(s) (35 U.S.C. 371(c)(4)).										
10. 🎾	A English language translati Article 36 (35 U.S.C. 3	on of the annexes of the International Prelin 71(c)(5))	ninary Examination Report under PCT									
	7.11.010 00 (00 0.0.0.0.0	, ((3)(3)).										
Ite	ms 11 To 20 below concern	document(s) or information included:										
11.	An Information Disclosure S	tatement under 37 C.F.R. 1.97 and 1.98.										
12.	An assignment document fo	r recording. A separate cover sheet in com	pliance with 37 C.F.R. 3.28 and 3.31 is included.									
13.	A FIRST preliminary amend	ment.										
14.	A SECOND or SUBSEQUE	NT preliminary amendment.										
15 🗆	A substitute specification.											
16.	A change of power of attorne	ey and/or address letter.										
17/2. □	A computer-readable form o	f the sequence listing in accordance with PO	CT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.									
18.	A second copy of the pub	lished international application under 3	5 U.S.C. 154(d)(4).									
19.	A second copy of the English	h language translation of the international a	pplication under 35 U.S.C. 154(d)(4).									
20.	Other items or information.	PTO-1449 and copy of International Search	Report									

ATTORNEY'S DOCKET NUMBER INTERNATIONAL APPLICATION NO. 124-861 PCT/GB99/04260 CALCULATIONS PTO USE ONLY The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5): Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1000.00 International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO......\$860.00 International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO......\$710.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$690.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00 **ENTER APPROPRIATE BASIC FEE AMOUNT =** 860.00 Surcharge of \$130.00 for furnishing the oath or declaration later than \(\square\) 20 **网** 30 \$ 130.00 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). NUMBER FILED NUMBER EXTRA RATE CLAIMS X \$18.00 \$ 0.00 17 -20 = 0 **Total Claims** 2 X \$80.00 160.00 Independent Claims 5 -3 = \$270.00 \$ 270.00 MULTIPLE DEPENDENT CLAIMS(S) (if applicable) TOTAL OF ABOVE CALCULATIONS = 1420.00 Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. 0.00 SUBTOTAL = 1420.00 ř Precessing fee of \$130.00, for furnishing the English Translation later than 20 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)). 0.00 TOTAL NATIONAL FEE = 1420.00 Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property 0.00 \$ Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00) 0.00 **TOTAL FEES ENCLOSED =** 1420.00 Amount to be: refunded \$ ti Charged \$ il A check in the amount of \$1420.00 to cover the above fees is enclosed. a.Q Please charge my Deposit Account No. 14-1140 in the amount of \$_____ to cover the above fees. b]] A duplicate copy of this form is enclosed. å The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. \boxtimes The entire content of the foreign application(s), referred to in this application is/are hereby incorporated by reference in this application. NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, appetition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status. SEND ALL CORRESPONDENCE TO: SIGNATURE NIXON & VANDERHYE P.C. 1100 North Glebe Road, 8th Floor Arlington, Virginia 22201-4714 Telephone: (703) 816-4000 Stanley C. Spooner NAME June 15, 2001 27.393 REGISTRATION NUMBER Date

JC18 Rec'd PCT/PTO 1 5 JUN 2001

		•		JUIO NOCU PUI/PIU I 3 JUN 2001						
FORM PTO-1390 (REV 11-2000)			F CO PERCE PATENT AND TRADEMARK OFFICE	124-861						
TRANSMITTAL LETTER 19 THE UNITED STATES U.S. APA CATION NO. (If known, see 37 C.F.R. 1.5)										
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING LINDER 35 U.S.C. 371										
INIT	EDNIA	TIONAL APPLICATION NO.	ING UNDER 35 U.S.C. 371 INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED						
INT	EHIVA	PCT/GB99/04260	16 December 1999	19 December 1998						
TIT	LE OI	F INVENTION MODIFIED WEIGH	TED BIT PLANES FOR DISPLAYING GR	EY LEVELS ON OPTICAL ARRAYS						
API	PLICA	ANT(S) FOR DO/EO/US	COKER et al							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:										
1.										
2.		This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.								
3.	\boxtimes	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4.	\boxtimes	The U.S. has been elected by the expiration of 19 months from the priority date (Article 31).								
5.	A co	copy of the International Application as filed (35 U.S.C. 371(c)(2)).								
	a.	is attached hereto (required only if not communicated by the International Bureau).								
	b.									
	c.	is not required, as the application was filed in the United States Receiving Office (RO/US).								
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
	a.	is attached hereto.								
	b.	has been previously su	bmitted under 35 U.S.C. 154(d)(4).							
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
	a.	are attached hereto (required only if not communicated by the International Bureau).								
	b.	☐ have been communica	ted by the International Bureau.							
	C.	have not been made; however, the time limit for making such amendments has NOT expired.								
	d.	have not been made and will not be made.								
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
10.		A English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).								
	Item	is 11 To 20 below concern o	document(s) or information included:							
11.		An Information Disclosure St	atement under 37 C.F.R. 1.97 and 1.98.							
12.		An assignment document for	recording. A separate cover sheet in com	pliance with 37 C.F.R. 3.28 and 3.31 is included.						
13.		A FIRST preliminary amend	nent.							
14.		A SECOND or SUBSEQUENT preliminary amendment.								
15.		A substitute specification.								
16.		A change of power of attorney and/or address letter.								
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.								
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4).								
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).								
20.	\boxtimes	Other items or information. PTO-1449 and copy of International Search Report								

U.S. APPLICATION OF (IF IN)	6824	10	INTERNATIONAL APPLICAT PCT/GB99/04260			ATTO	124-861	NUM	BER
21. X The following fe	es are submi	tted:				CA	LCULATIONS	PTO	USE ONLY
BASIC NATIONAL F	EE (37 C.F.F	R. 1.492(a)(1))-(5):						
Neither internation	nal preliminar	y examinatio	n fee (37 C.F.R. 1.482)						
nor international s	earch fee (37	7 C.F.R. 1.44	5(a)(2)) paid to USPTO		£1000 00				
and International Search Report not prepared by the EPO or JPO\$1000.00					.\$1000.00				
International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO\$860.00									
International preli	minary exami	ination fee (3	7 C.F.R. 1.482) not paid to	USPTO					
International preli	but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO\$710.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO								
but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$690.00 International preliminary examination fee (37 C.F.R. 1.482) paid to USPTO									
and all claims sati	sfied provision	ons of PCT A	rticle 33(1)-(4)		\$100.00			1	
			ENTER APPROPRIATE	BASIC FE	E AMOUNT =	\$	860.00		
Surcharge of \$130.00 for	furnishing th	ne oath or de	claration later than 20	⊠ 30)	\$	130.00		
months from the earliest	Cialmed prior	Try date (37 C	NUMBER EXTRA		RATE	"	100.00	<u> </u>	
CLAIMS Total Claims	17	-20 =	0	<u>'</u>	\$18.00	1 5	0.00	Γ	
Independent Claims	<u>1/</u> 5	-20 = -3 =	2	$\frac{\hat{x}}{x}$	\$80.00		160.00		
MULTIPLE DEPENDEN					270.00	\$	270.00		
WOLTHELDET LINDER	i OBAINIO(O)	(п аррисари	TOTAL OF AB			\$	1420.00		
Applicant claims sn	nall entity sta	tus. See 37	CFR 1.27. The fees indica						
are reduced by 1/2						lacksquare	0.00		
					SUBTOTAL =	\$	1420.00	ļ	
Processing fee of \$130.0	0, for furnish	ing the Engli	sh Translation later than] 20 🔲 30	İ		2.22	i	
months from the earliest	claimed prior	rity date (37 (C.F.R. 1.492(f)).	OTAL 1143	+		0.00	!	
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be					\$	1420.00			
Fee for recording the end	closed assign	ment (37 C.)	H. 1.21(n)). The assignm ED 3.28 3.31\ \$40.00 1	nent must i oer propert	v +	\$	0.00	ŀ	
accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property + Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 – Small Entity = \$620.00)					\$	0.00			
TOTAL FEES ENCLOSED =					s	1420.00	1		
						Amount to be:			
							refunded	\$	
-							Charged	\$	
a. A check in the	amount of \$	1420.00 to c	over the above fees is end	losed.				I	
b. Please charge	my Deposit	Account No.	14-1140 in the amount of	\$ to (cover the above	fees	3.		
A duplicate co	py of this form	n is enclosed	.						
c. The Commissi	oner is hereb	y authorized	to charge any additional f	ees which	may be required	a, or	credit any		
overpayment t	o Deposit Ac	count No. 14	-1140. A <u>duplicate</u> copy o tion(s), referred to in this a	r this form polication i	is enciosed. s/are hereby in:	corna	orated by refe	rence	e in this
d.	tent of the lo	reign applica	uon(s), reletted to in this a	pplication	S/are rieleby in	corpe	sialed by iele		,
аррисацоп.									
NOTE: Where an appro	opriate time	limit under 3	37 C.F.R. 1.494 or 1.495 h	as not be	en met, a _z petiti	on t	o revive (37 0	C.F.F	≀. 1.137(a)
or (b)) must be filed an	d granted to	restore the	application to pending s	tatus.	///		/		
		,				//			
	HH h								
SEND ALL CORRESPO	SEND ALL CORRESPONDENCE TO:								
NIXON & VANDERHYE	NIXON & VANDERHYE P.C.								
1100 North Glebe Road, 8 th Floor						~			
Arlington, Virginia 22201	-4714			<u>.</u> .					
Telephone: (703) 816-40	000				y C. Spooner				
				NAME					
				27 201	,		June 15, 20	ሰበተ	
27,393 REGISTRATION NUMB					June 15, 2001 BER Date				
i .				TILGIO	THE POST MOND	'	Date		